YEFIMOV, A.F.; KRAVCHENKO, S.M.; VASIL'YEVA, Z.V.

Strontium apatite, a new mineral. Dokl. AN SSSR 142 no.2:439-442 Ja 162: (MIRA 15:2)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov AN SSSR. Predstavleno akademikom D.S.Korzhinskim. (Inagli region—Apatite)

 YEFIMOV, A.F.; GORBACHEVA, T.B.

Potassium feldspars in the alkali pegmatites of the Inaglinskiy massif. Trudy Min. muz. no.14:231-237 '63. (MIRA 16:10)

(Inaglinskiy massif-Feldspar) (Inaglinskiy massif-Pegmatites)

YEFIMOV, A.F.; KRAVCHENKO, S.M.; VLASOVA, Ye.V.

Mineralogy of alkali pegmatites of the Inagli massif. Trudy IMCRE no.16:141-175 '63. (MIRA 16:8)

YAKOVLEVSKAYA, T.A.; YEFIMOV, A.F.

New data on the crystallography of minerals in the batisiteshcherbakovite series. Dokl. AN SSSR 151 no.6:1413-1415 Ag '63. (MIRA 16:10)

l. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR i Institut mineralogii, geokhimii i kristallokhimii redkikh elementov AN SSSR. Predstavleno akademikom D.S.Korzhinskim.

s/0020/63/153/004/0913/0915

AP4004601 ACCESSION NRI

Dusmatov, V. D.; Yefimov, A. F.; Semenov, Ye. I.

AUTHORE

First find of stilwellite in the USSR TITLE:

AN SSSR. Doklady*, v. 153, no. 4, 1963, 913-915 SOURCE:

TOPIC TAGS: rare earth mineral, stilwellite, CeBSiO5, rare earth borosilicate, cerium borosilicate

ABSTRACT: In the USSR, stilwellite was first discovered in the pegmatites and hydrothermal veins associated with the alkaline rocks of the Alaysk Range in Tadzhikistan and the Inaglinsk massif in South Yakutia. In contrast to the Australian variety, this stilwellite has a fairly well-developed crystal form. The sizes range from 5 x 1 cm for the Tadzhikistan mineral to 0.3 x 0.1 cm for the Yakutian. The crystals are a combination of a hexagonal prism $\{1120\}(\phi=30^{\circ}, \rho=0)$ and rhombohadron $\{10\overline{11}\}(\phi=0^{\circ}, \rho=56^{\circ})$. The chemical composition of the stilwellite found in the pure crystalline state is very close to the formula CeBSiO5. Only a small substitution of the rare earths by thorium (up to 1.8% ThO2) can be observed. Card 1/2

ACCESSION NR: AP4004601

The Australian stilwellite differs in a higher H₂O, Ca, Al, Fe, and U content. A mineral of the iatolite group has also been encountered in the alkali pegmatites of the Alaysk Range, and leucosphenite in the Inagliusk pegmatites. All these minerals contain boron. Orig. art. has: 1 figure and 3 tables.

ASSOCIATION: Institut minerologii, geokhimii i kristallokhimii redkikh elementov (Institute of Minerology, Geochemistry, and Rare Earth Crystal Chemistry)

SUBMITTED: 11Mar63	DATE ACQ:	24Dec63	;	ENCL:	00
SUB CODE: IC	NO REF SOV	1 000	•	OTHER:	002

Card 2/2

AUTHOR:

Yefimov, A.G., Engineer

SOV-118-58-10-13/16

TITLE:

The Mechanization of the Finishing of Tires, and of Their Loading into Freight Cars at the Moscow Tire Plant (Mekhanizatsiya komplektovaniya shin i pogruzki ikh v vagony na

Moskovskom shinnom zavode)

PERIODICAL:

Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1958,

Nr 10, pp 41 - 42 (USSR)

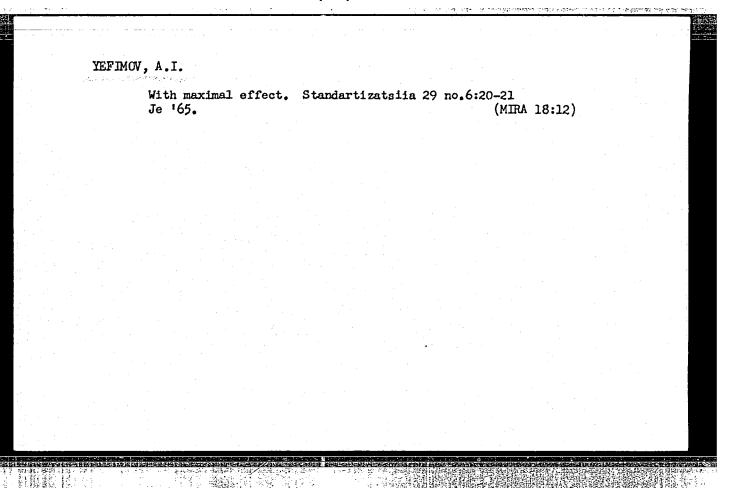
ABSTRACT:

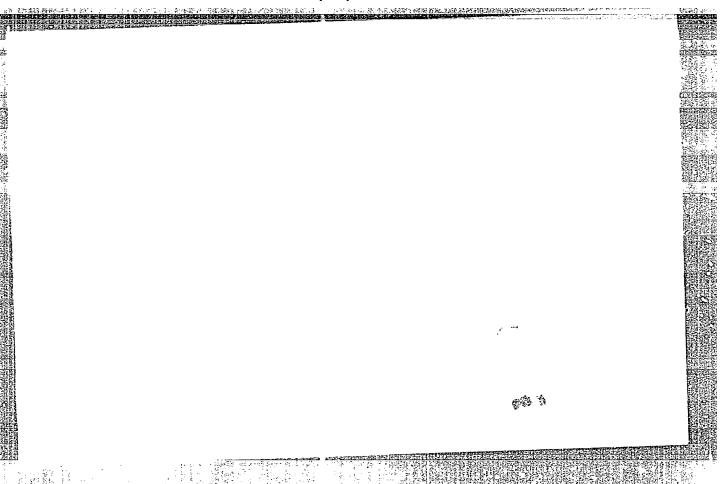
The process of the finishing of tires and of their subsequent loading into freight cars at the Moskovskiy shinnyy zavod (Moscow Tire Plant) was mechanized by the combined use of different types of conveyors. This cuts the loading time from 2 hours to 1 hour 20 minutes. There are 4 photos and 1 diagram.

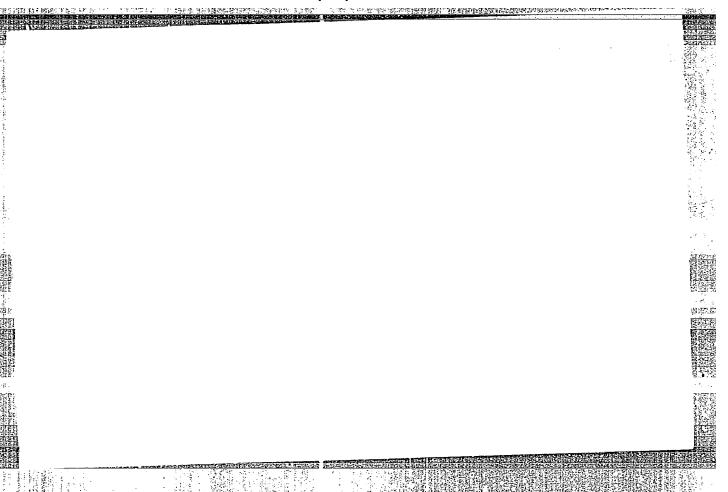
1. Tires--Production 2. Tires--Handling

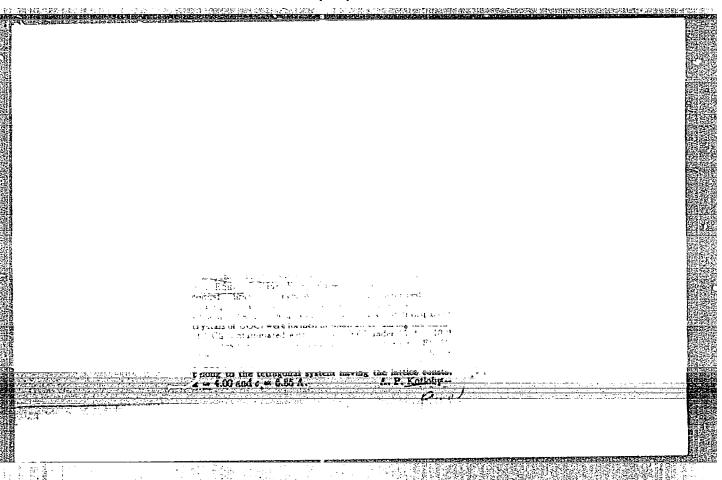
Card 1/1

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YEFIMOU, A.I.

AFTIMOV, A.I., Can Chem Sci -- (diss) "Processes of Disproportion under High Temperature, as in Example of Trichloride and Hydroxychloride. Weat Granium", Len, 1958, 12 pages (Leningrad Order of Lenin State University im A.A. Zhdanov).

100 copies (Kl 10-58, 119)

- 7 -

GRIDNEY, V.N.; YEFINOV, A.I.

Structure of ferritic grain boundaries. Izv.vys.ucheb.zav.; chern.met. no.3:86-90 '60. (MIRA 13:4)

1. Kiyevskiy politekhnicheskiy institut. (Steel--Metallography)

 GRIDNEY, V.N. [Hridniev, V.N.]; YEFMOV, A.I. [IEfimov, O.I.]

Interferometric investigation of ferrite grain boundaries. Ukr. fiz. zhur. 5 no.6:834-838 *60. (MIRA 14:3)

1. Institut metallofiziki AN USSR. (Ferrates)

YEFIMOV, A. I., Cand. Tech. Sci. (diss) "Investigation of Structural and Phase Changes on Marginal Zones of Ferrite Nodule,"

Kiev, 1961, 13 pp. (Kcad. of Sci. UkrSSR, Inst. of Metal-Ceramics and Special Alloys) 200 copies (KL Supp 12-61, 266).

GRIDNEY, V.N.; YEFIMOV, A.I.

Investigating the processes of decomposition and formation of boundary layers in chromium ferrates. Sbor. nauch. rab. Inst. metallofiz. AN URSR no.13:106-114 '61. (MIRA 14:12) (Chromium ferrate--Metallography)

GRIDNEV, V.N.; YEFIMOV, A.I.

Investigating relaxation phenomena in manganese ferrite. Izv. vys.

ucheb. zav.; chern. met. 4 no.10:75-81 '61. (MIRA 14:11)

l. Kiyevskiy politekhnicheskiy institut.
(Iron-manganese alloys--Heat treatment)
(Internal friction)

s/054/62/000/003/006/010 B101/B186

AUTHORS:

Vasil'kova, I. V., Yefimov, A. I.

TITLE:

Interaction in the system $MoCl_3$ - $FeCl_3$

PERIODICAL: Leningrad. Universitet. Vestnik. Seriya fiziki i khimii,

no. 3, 1962, 98 - 100

TEXT: The fusibility curve for this system was plotted by thermographic investigation in the range 20-350°C. The system forms a simple eutectic, m.p. 185°C, of the composition 93 mole/ MoCl5, 7 mole/ FeCl3. In the range 50-60 mole/ MoCL, the solious line could be determined exactly whereas the liquidus line was inaccurate. Tensimetric investigation with a glass membrane as a null manometer in the range 20-300 C gave the diagram p versus t. Down to liquidus temperature, the values obtained in cooling agreed with those determined in heating. On further cooling an elevated residual pressure of 100-200 mm Hg was observed due to gaseous chlorine formed on dissociation of MoCls, which, being poorly soluble in the solid phase, passes over into the gaseous phase on solidification.

Card 1/2

Interaction in the system...

S/054/62/000/003/006/010 B101/B186

The p-versus-t curve confirmed the complex composition of the gaseous phase of the MoCl₅ - FeCl₃ system. Gas pressure over a melt consisting of 25.5 mole% MoCl₅, 74.5 mole% FeCl₃, is only half the pressure over pure MoCl₅. There are 3 figures.

SUBMITTED: June 27, 1961

Card 2/2

VASIL'KOVA, I.V.; YEFIMOV, A.I.

Interaction in the systems molybdesam with pentachloride - alkali metal chloride. Zhur.ob.khim. 32 no.8:2742-2743 Ag '62. (MIRA 15:9)

(Molybdenum chloride) (Alakli metal chlorides)

JD/JG EWP(q)/EWT(m)/EDS L 17434-63 9/0078/63/008/008/2001/2004 AP5004359 ACCESSION NR. AUTHORS: Yefimov, A. I.; Pitirimov, B. Z. TITLE: Fusibility curves for RoCl-CrCl sub 3 and CsCl-CrCl sub 3 systems. SOURCE: Zhurnal neorganicheskoy khimii, v. 8, no. 8, 1963, 2001-2004 TOPIC TAGS: Rb, RbC1, Cr, Cs, CrC1 sub 3 CsC1, rubidium, chromium, desium ABSTRACT: Authors studied the interaction of alkali metals of rubidium and cesium with chromium trichloride. The fusibility curves of RbCl-CrCl3 and CsCl-CrCl3 were investigated by differential-thermal method. Fusibility curves for the above systems were constructed on the basis of results of the thermal analysis. The formation of congruent compounds of the composition MegCrCle and MegCr2Clq (Me-Rb, Cs) was also found in these systems. Orig. art. has: 2 tables and 2 figures. ASSOCIATION: none ENCL: DATE ACQ: 21Aug63 SUBMITTED: OlDec62 OTHER: no her sov: 004 SUB CODE: CH

S/2601/63/000/017/0098/0110

ACCESSION NR: AT4010694

AUTHOR: Gridney, V. N.; Yefimov, A. I.; Kushnareva, N. P.; Khazanov, M. S.

TITLE: Structural changes during nonstationary annealing of turbine blades made of cast heat-resistant alloys on a nickel base

SOURCE: AN UkrRSR. Insty*tut metalofizy*ky*. Sbornik nauchny*kh trudov, no. 17, 1963. Voprosy* fiziki metallov i metallovedeniya, 98-110

TOPIC TAGS: cracking, fissure turbine blade, gas turbine, thermal fatigue, heat-resistant alloy, cast alloy, thermocyclic stress, cyclic heat treatment, nonstationary annealing

ABSTRACT: Turbine blades work under conditions of a non-stationary temperature field. Thermal stresses which occur during starting up and shutting down lead to premature deterioration of the blades, because of the appearance and development of fractures due to thermal fatigue. In a number of studies it has been shown that surface layers play a decisive role in the resistance of heat-resisting alloys at high temperatures and in conditions of non-stationary annealing. The present study is devoted to the examination of structural changes in surface layers and in the internal zones of samples and blades made from cast alloys of complex components. Blades tested for thermal fatigue were studied.

Card 1/3

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962320017-0"

ACCESSION NR: AT4010694

Samples were annealed at 1000C for 30 seconds, exposed in a furnace for 4 minutes, and cooled in an air stream or water. Structural changes were studied by optical and electromicroscopic methods. The study of the structural state of samples subjected to cyclic treatment showed no noticeable changes in carbide components. There was no noticeable change between structures of the central and surface parts. No microfractures were noticed even after 400 cycles with cooling in an air stream. Stresses during such treatment were not sufficient to cause flaws. The study of the microstructure in the region of cracks showed that fracturing in the alloys occurs mostly along the lines of grain. In some. cases one could see that the initial stage of decomposition was a sharp disintegration, which took the form of fractures along the lines of grains of the cellular structure. It appears that as a result of cyclic loads, defects were concentrated in these regions, which at certain stages caused the appearance of microfissures. The fact that the appearance of cracks was always connected with the formation of cellular structure made it necessary to determine under what conditions such a structure was formed, what its nature was, and what role it played in the appearance of cracks. It was found that cellular structure appeared in the region of 1180-1200C. Further increase in temperature speeded up the process of its formation. The rate of cooling had a definite effect. The greater the rate the more pronounced the cellular structure was. Until now one could only conjecture that the

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ACCESSION NR: AT4010694

formation of cellular structures might hasten the appearance of microcracks, which cracks could lead to the deterioration of blades. "Specimens which had been subjected to cyclic heat treatment were provided by V. I. Borisova." Orig. art. has: 6 figures.

ASSOCIATION: Insty*tut metalofizy*ky* AN UkrRSR (Institute of Metallurgical Physics AN UkrRSR)

SUBMITTED: 00

DATE ACQ: 31Jan64

ENCL: 00

SUB CODE: MM, PR

NO REF SOV: 005

OTHER: 001

Card 3/3

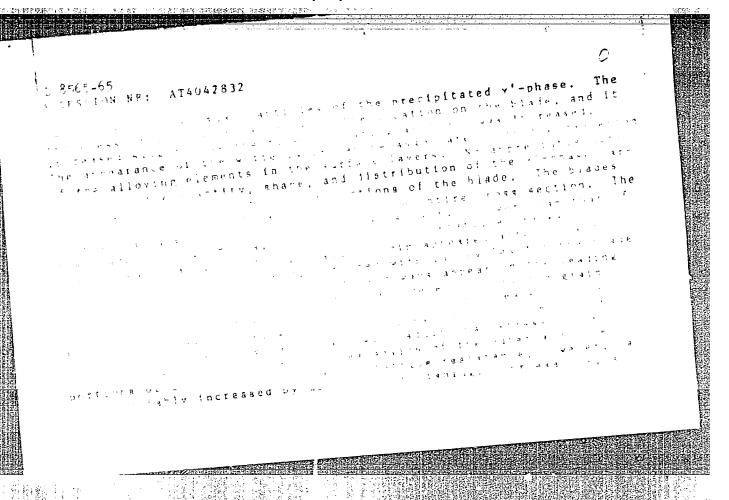
VASIL'KOVA, I.V.; YEFIMOV, A.I.; PITIRIMOV, B.Z. Enthalpy of the formation of Na3CrCl6, K3CrCl6, and

Enthalpy of the formation of hajored, profile of the K3Cr2Cl9. Zhur. neorg. khim. 9 no.3:754-755 Mr 64. (MIRA 17:3)

 VASIL'KOVA, I.V.; YEFIMOV, A.I.; PITIRIMOV, B.Z.

Complex formation in the systems MeCl - CrCl3 (Me- an alkaline metal). Zhur.neorg.khim. 9 no.4:900-904- Ap '64. (MIRA 17:4)

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PA/EUT(m)/EPP(m)-2/EPA(bb)-2/EVP(bb)-2/EVP(q)/EWP(h)/EVE
COLLET ASSOCIATION ALL ASSOCIATION ASSOCIA
 AUTHOR: Gridney, V. N., lorresponding member AN ThrSSH); Yefinov, A.
 ACCEES IN MR. AT4042832
  TITLE: Behavior of stator blades under conditions of steady and non-
  Kushnarera, H. F. Khazanov, K. S.
   SOURCE: An UkrSSR. Institut metallofiziki. Shornik nauchny*kh rabot,
    no. 18, 1964. Voprosy* fiziki metallov i metallovedeniya (Problems in
     the physics of metals and physical metallurgy), 47-53
   TOPIC TAGS: Ras turbine, Ras turbine blade, gas turbine stator blade,
      TOPIC TAGS: gas turbine, gas turbine blade thermal fatigue, thermal fatigue, resistance, rotor blade ther-
       ABSTRACT: Gag-turbine stator blades, cast from an Ni-Cr alloy (un-
       identified, were held at 10000 for 100, 200, or 500 min, and then
       mal fatigue
        subjected to cyclic nest treatment, heating to 1200C in 30 sec, hold-
           30 sec, and cooling in the air stream to 50C in
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         akkienakte gas attem et i en gantfarea a thin entie
          -tal 1/3
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polishing of the entire scripting. Orig. art. has: 7 figur ing. Orig. art. has: 7 figur ASSOCIATION: Institut metallofiz		(Physics of		

TITLE: A study of the internal friction of nickel at high temperatures

80 URCE: AN UkrSSR Institut metallofiziki Shornik nauchnykh trudov, no. 20, 1964

TOPIC TAGS: nickel structure, nickel internal friction, high temperature internal friction and an experience of the structure of grain size (annealing temperature) on the high-temperature internal friction in nickel of various degrees of purity was investigated. The temperature

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UTHORS: Gri	dnev, V. N. (Kiev)	Yefimov, A. I. (K	iev)	1) 13+1	
RG: none				75.7	
ITLE: The r	ole of surface laye	ers in nozzle blade	failure		
OURCE: Vses	ovuznove soveshchar	niye po voprosam sta	ticheskoy i dina	micheskoy	
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omporaturaki	3d. Termonrochnos	at! materialov i kom	istruktsionnykn e	Temetron / Thether	
trength of n	aterials and consti	ruction elements); m	aterialy sovesho	naniya. Kiev,	1
laukova dumka	, 1965, 204-214	•			
OPIC TAGS:	heat resistant allo	oy, turbine blade, s , temperature depen	surface property, dence, cooling re	metal surface, ate, hardness, stee	1
tructure	14	* •	- 18		
BSTRACT: TH	e structural, physic	cal, and mechanical	properties of th	e surface of three	
+7 -77	which alogaly regar	mble the material 10	ound in the suria	ice rayers or Kas	- 1
urbine blade	s were investigated	and compared with 2.8 Ti). The temper	one Original News	of microhardness	8 _
roperties (.	n DW 20Hoeting mid	chine), Dehear moduli	is, internal fric	tion, elongation.	1
oofficient (ofithermal expansion	nly and surface struc	ctures was determ	MUSC 82 8 INVESTOR	
of cooling ar	d heating rate. I	t was found that the	microstructure	of the surface	-
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ACC NK: AT6008663

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layers was different from that of the inner regions and that their hardness was lower. Internal friction in the alloy surface layers was different from that of the basic alloy, but no difference in shear modulus could be established in the temperature range of 800-1175K. A significant difference in the coefficient of linear expansion was established at 1275K. Photographs of the microstructures and curves of the mechanical and physical properties are presented. Orig. art. has: 5 figures and 1 formula.

SUB CODE: 20, 21/ SUBM DATE: 19Aug65/ ORIG REF: 007/ OTH REF: 002

Card 2/2dda

ENT(m)/ENP(w)/ENA(d)/ENP(v)/T/ENP(t)/ENP(k)/ETC(m)-6 L 24462-66 ACC NRI WB/EM/GS (N) SOURCE CODE: UR/0000/65/000/000/0221/0227 AT6008665 AUTHORS: Khazanov, M. S. (Kiev); Yefimov, A. I. (Kiev); Molchanov, I. S. (Kiev) ORG: none TITLE: Several methods of improving the performance of nozzle blades SOURCE: Vsesoyuznoye soveshchaniye po voprosam staticheskoy i dinamicheskoy prochnosti materialov i konstruktsionnykh elementov privysokikh i nizkikh temperaturakh, 3d. Termoprochnost' materialov i konstruktsionnykh elementov (Thermal strength of materials and construction elements); materialy soveshchaniya. Kiev, Naukova dumka, 1965, 221-227 TOPIC TAGS: thermal stress, thermal fatigue, turbine blade, metal fatigue, nickel base alloy, chromium base alloy, metal surface, annealing, corrosion resistance, heat resistance ABSTRACT: The effects of smelting method (in vacuum and air), heat resistant alloying (with chromium) annealing (in argon), and protective coatings (thermal diffusion calorizing) on the thormal and corrosion, resistant properties of a nickel-chromium based alloy were studied. The structure of the surface layers was also investigated by subjecting nozzle blades made of this alloy to thermal cycling (30 seconds to reach 1475K gas temperature, 30 seconds at 1475K, cooling in 325K air for one minute). Smolting was performed in an air induction furnace (LOPZ-60) and in a vacuum furnace 2. (VIAM-165, 6.10-3 mm Hg) and was followed by standard heat treatment. Annealing in Card 1/2

L 24462-66 ACC NR, AT6008665 argon was performed at 12 pounds at 1225K. The pre- (sb. Voprosy vysokotempere 1963) was used to evaluat above factors on thermal blades is described quantifications.	viously described me aturnoy prochnostive the thermal resist fatigue	thod of M. S. Ka mashinostroyeni ance of the black distance, and con	zenov and I. S. i, Izd-vo AN Uko les. The effect rosion resistan	MolchenoverSSR, of the ce of the
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L 05094=67 EWT(d)/EWP(1) IJP(c) BB/GG SOURCE CODE: UR/0413/66/000/008/0097/0098

AUTHORS: Baksheyev, A. I.; Vizun, Yu. I.; Yefimov, I. A.; Tarasov, L. G.

ORG: none

TITLE: A magnetic address decoder of a storage device with linear selection. Class 42, No. 180855 / announced by Institute of Precision Mechanics and Computational Technology, AN SSSR (Institut tochnoy mekhaniki i vychislitel'noy tekhniki AN SSSR)

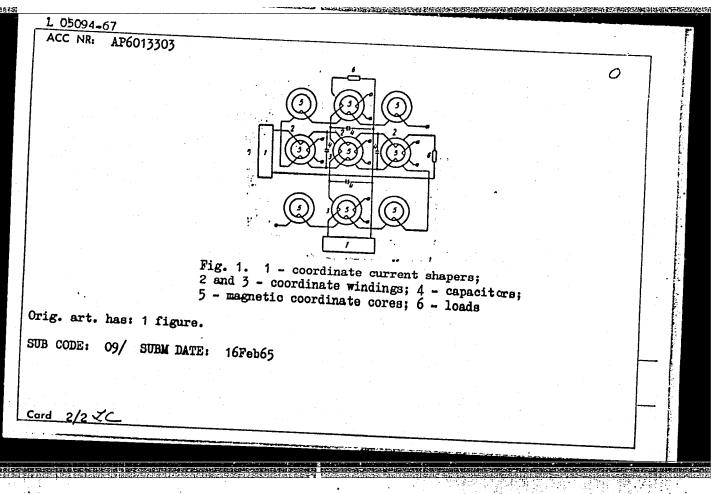
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 97-98

TOPIC TAGS: computer storage device, magnetic core storage, computer memory, memory address

ABSTRACT: This Author Certificate presents a magnetic address decoder of a storage device with linear selection. The decoder includes magnetic coordinate cores and a system of windings (see Fig. 1). The design increases the response time and simplifies the matching with semiconductor current shapers. The coordinate windings are made in the form of matched artifical delay lines. To provide these delay lines, capacitors are connected between the inductances (formed by the groups of windings of the coordinate cores) and the common busbar. Loads which are equal to the wave impedance of the delay lines are connected to the output of the lines.

Card 1/2

UDC: 681.142.07



YEFIMOV, A.I.; ZEMSKIY, S.V.

Investigating the distribution of phosphorus in iron-base alloys by the method of autoradiography. Sbor. nauch. trud. Inst. metallo-fiz. AN URSR no.20:171-179 '64. (MIRA 18:5)

Permafrost Waters of Subpermafrost Waters of I. Efimov, 3 pp a. I. Efimov, 3 pp and 18 years ago a rights time the Russian watersted, deepened the terested, deepened the the Shergin Shaft. It the Shergin Shaft. If the Shergin Shaft. If the Shergin Shaft. If the January of the Yakutsk region the Yakuts			SHIETYILEPHT FUNLSKING COLUMNIA	RIGHT TERM THE TREE OF TREE OF THE TREE OF
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of the Central Yakutak Region," In named Shergin dug a well in success, due to permafrost. At success, due to permafrost. At success, due to permafrost. It served well as a source for it was determined that the perlit was determined that the perticular of Yakutak went as deep toinity of Yakutak went as deep toinity of Yakutak went as deep to the bore to a depth of 500 ank a bore to a depth of 500 ank a bore to a depth of 500 ank a search for better water source to the rapid development of the tories. 3473	Cent:	bore studi		
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Suprapermafrost water conditions in Transbaikalia. Sov.geol no.26:77-90 '47. (MEA 8:8) (Transbaikalia--Water, Underground) (Transbaikalia--Frozen ground)

YEFIMOV, A. I.

"Review of Prof. I. A. Sharova's Book 'The Theory of Establishing Watering Regimes for Agricultural Crops'," Pochvovedeniye, No. 6, 1949. Dir. of the Ak-Kavakskiy Station, -c1949-.

YEFTMOV, A. I.

Yakutsk Artesian Basin of Sub-perma frost waters. Izvest. Akad Nauk SSSR, seriya geol. #4, 1945

SO: Trudy Arkticheskogo Nauchno-Issledovatel'skogo Instituta, GUSAP, Council of Ministers, Vol 201, 1948

YEFIMOV, A. I.

"Drying of Thermal Karst Lakes of Central Yakut," Merzlotovedeniye. (Permafrost Science),
Vol 1, No 2, 1946 (91-94).

(Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953

YEFIMOV, A.I.

GRAVE, N.A. [translator]; TOLSTOV, A.N. [translator]; USOVA, T.V. [translator]; CHEKOTILLO, A.M. [translator]; YEFIMOV, A.I., red.; ZNAMENSKAYA, V.K., red.; GRIBOVA, M.P., tekhn. red.

[Frozen ground of Alaska and Canada; a collection of articles]
[Translated from the English] Merzlys gornye porody Aliaski i
Kanady; sbornik statei. S predisl. A.I. Efimova. Moskva. Izd-vo
inostr. lit-ry, 1958. 262 p.

(Alaska-Frozen ground) (Canada-Frozen ground)

A.I. YEFIMOV, sey/30-53-3-38/43 poeter of deslocical ad Thereic tell Trachuk, V.G. Conditate of Replacions and Auguor : to L wiences with the line of the can't be town at the Sections Coolery of Englishment (Tamen mive relaxmenth voli inchesers): 180-TITLE: in Smite (Soromacheni e v Caite) Testelk Sedemii neus Cos. 1958, Mr d, pp. 12 -124 (USSR) PERIODICAL: This conference was held from June 2 - 8. It was calledly the Institut geologii Vostechno-Sibirskogo filiala Sibirskogo ABSTRACT: Otdelenion from the of conlogy of the Mant Siberia Branch of the Siberian Department : by the Institut Berzletovedeniye in. V. A. Assume and Carabitate of Frezen Boil Geience imeni V. 1. Obrachev) and by the laboratorive gidrogeologicheskikh public in . . . they constons (1 borntony of Hydrogeological Proble a later to re- towerenceiy) and by the Cebrechteriya Ministeratvo geologii i oldmang meir tosh (Institutions of the Ministry of Goology end the Protection of Mineral Re-Card 1/3 salitated energia de presidente en la companya de l

SOV/30-58-3-23/45

Investigation of Ground Waters and the Technical Geology of East Siberia. Transactions of the Conference in Chita

courses (SSR), i. e., Mermitarial administrations of make Irkutek, Buryat-Yongoliya and by the Sosnovskaya expedition. 145 representatives from 50 different institutions of the country participated in the work of the content may. Out of 81 reports submitted 57 were accepted. nong other grablems, the first variant of a hydrogeological large-scale map of the Asiatic part of the USSR was discussed in the first plenary meetings, as well as results of the investigation of the mineral springs of the southern part of East Siceria. The further work of the conference proceeded in three sections: For general problems and problems of research methods, for regional hydrogeology, for technical geology and frozen soil science. The fast progress of industrielization in Mast Siberia, and the further development of its agriculture present new tasks. The meeting outlined a further program of future work. This incorporates an increase of the area to be covered by cartographical survey and the compilation of a number of maps. The meeting recommended to catablish special departments or hydrology and technical geology in the territorial geological administrations of the Ministry of Geology and Protection of

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Investigation of Curous, A tore and the Technical Coology of that affords. Transactions of the Andrewage in Chita

nextly and reconcer of the USER and to enlarge too Department of Transle, y and Technical Coology at the Institute of Coc-lavestigations are to be established in Chita and Ulan-Ude. Her subjects are to be introduced at the University and the Polytechnical Institute at Lekutek.

Card 3/3

SOLOV'YEV, P.A.; GRAVE, N.A., otv.red.; YEFIMOV, A.I., otv.red.; KOTLYA-REVSKAYA, P.S., red.izd-ve; SIMKINA, G.S., tekhn.red.

[Permafrost zone in the northern part of the Lena-Amga interfluve] Kriolitozona severnoi chasti Leno-Amginskogo mezhdurech'ia. Moskva, Izd-vo Akad.nauk SSSR, 1959. 143 p.

(MIRA 13:1)

(Lena Valley--Frozen ground) (Amga Valley--Frozen ground)

YEFIMOV, A.I.

Sprinkling the earth in a diamond district. Priroda 48 ne.6:113-114 Je 159. (MIRA 12:5)

1. Institut merzletevedeniya im. V.A. Obruchev AN SSSR, Meskva. (Yakutia-Diamond mines and mining)

BELOKRYLOV, Ivan Dmitriyevich; YEFIMOV, Andrian Ivanovich; CHAVE, N.A., otv.red.; GOLEVA, Ye.M., red.izd-va; NIKOLAYEVA, I.N., red. izd-va; LEHEDEVA, L.A., tekhn.red.

[Permafrost in iron and coal deposits of southern Yakutia]
Mnogoletnemerzlye porody zony zhelezorudnykh i ugol'nykh mestoroshdenii IUzhnoi IAkutii. Moskva, Izd-vo Akad.nauk SSSR,
1960. 73 p.

(Yakutia--Ore deposits) (Yakutia--Frozen ground)

YETIMOV, A.I.; SHUMSKIY, P.A.

Ground ice in the environs of Krest-Khal!dzhay on the Aldan River. Mat. k osn. uch. o merz. zon. zem. kory no.5:15-40 '60. (MIRA 13:10)

(Krest-Khal'dzhay region--Frozen ground)

KYABCHENKOV, A.S.; ANTONENKO, K.I.; TITOV, N.A.; CHAPOVSKIY, Ye.G.;
CHURINOV, M.V.; KONOPIYANTSEV, A.Z.; VIKTOROV, S.V.; VOSTOKOVAYA,
Ye.A.; SADOVSKIY, N.D.; KUDELIN, B.I.; OGIL'VI, N.A.;
LUNGERSGAUZEN, G.F.; BRODSKIY, V.A.; SHCHERBAKOV, A.V.; POPOV,
V.N.; YEMEL'YANOVA, "B.P.; SOKOLOV, S.S.; BERSENEV, I.I.; CROSHIN,
S.I.; MAKKAVEYEV, A.A.; MARINOV, N.A.; YEFIMOV, A.I.; ASSOVSKIY,
G.N.; VLADIMIROV, A.G.[deceased]; PROKHOROV, S.P.; FILIPFOVA,
B.S., red. izd-va; BYKOVA, V.V., tekhn. red.

[Methodological manual on hydrogeological surveying at the scales of 1:1,000,000 - 1:500,000 and 1:200,000 - 1:100,000]Metodicheskoe rukovodstvo po gidrogeologicheskoi s"emke masshtabov 1:1000 COO - L;5000 COO i 1:200 COO - 1:100000. Pod obshchei red. A.A.Makkaveeva i A.S.Riabchenkova. Moskva, Gos. nauchnotekhn. izd-vo lit-ry po geol. i okhrane nedr, 1961. 318 p. (MIRA 15:3)

1. Russia (1923- U.S.S.R.) Ministerstvo geologii i okhrany nedr. (Water, Undergroum) (Geological surveys)

TKACHUK, V.G., otv. red.; TOLSTIKHIN, N.I., red.; POPOV, I.V., red.; ZAYTSEV, I.K., red.; YEFIMOV, A.I., red.; PAL'SHIN, G.B., red.; GRECHISHCHEV, Ye.K., red.; ASTRAKHANTSEV, V.I., red.; PERLOVICH, B.F., red.; PECHERSKAYA, T.I., tekhn. red.

[Transactions of the Second Conference on Underground Waters and the Engineering Geology of Eastern Siberia held in Chita, 1958] Trudy Soveshchaniia po podzemnym vodam i inzhenernoi geologii Vostochnoi Sibiri. Irkutsk, Irkutskoe knizhnoe izdvo. No.4. 1961. 161 p. (MIRA 16:4)

1. Soveshchaniye po podzemnym vodam i inzhenernoy geologii Vostochnoy Sibiri. 2d, Chita, 1958. (Siberia, Eastern--Water, Underground) (Siberia, Eastern--Engineering geology)

YEFIMOV, A.I

PHASE I BOOK EXPLOITATION

BOV/5885

Akademiya nauk SSSR. Institut merzlotovedeniya

Polevyye geokriologicheskiye (merzlotnyye) issledovaniya; metodicheskoye rukovodstvo (Geocryological [Permafrost] Field Studies; Methodological Handbook) Moscow, Izd-vo AN SSSR, 1961. 422 p. Errata slip inserted. 1500 copies printed.

Editorial Board: Chairman, I.Ya. Baranov, Doctor of Geographical Sciences, Professor, S.P. Kachurin, Doctor of Geographical Sciences, A.I. Yefimov, Candidate of Geographical and Mineralogical Sciences, and N.A. Vel'mina, Candidate of Technical Sciences; Eds. of Publishing House: A.A. Priklonskiy and I.N. Nikolayeva; Tech. Ed.: V.G. Laut.

PURPOSE: This book is intended for the growing number of specialists in various branches of the national economy who are concerned with engineering problems in permafrost soils.

COVERAGE: Three types of geocryological field investigations are discussed:

1) geocryological surveying, for detecting regularities in cryogenic processes, compiling geocryological maps illustrating the distribution of Card 1/5

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Geocryological [Permafrost] Field (Cont.)

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permafrost areas, and for indicating the boundaries of sections with various degrees of suitability for construction; 2) subject studies of cryogenic formations (ice bodies, heaving mounds, polygonal-veined ice, etc.) and postglacial formations (thermokarst, solifluctional, etc.), which are of great importance for practical engineering; and 3) long-range stationary and semistationary observations during geocryological and engineering-geocryological surveying, for studying the dynamics of the temperature field in the zones of seasonal temperature fluctuations, regimen of the layers of seasonal freezing and thawing, heaving phenomena, fissure formation, subsidence, ground creeping, mechanical and thermal interaction between the structures and enclosing rocks or foundation grounds, etc. The handbook was compiled by a group of staff members of the Institute of Permafrost Study imeni V.A. Obruchev, AS USSR. No personalities are mentioned. References follow individual chapters.

TABLE OF CONTENTS [Abridged]:

Foreword

Card 2/5

3

Geocryological [Permafrost] Field (Cont.) SOV/5885	
Introduction by I.Ya. Baranov	5
PART I. GEOCRYOLOGICAL SURVEY	
Ch. I. Purpose and Scope of the Geocryological Survey. I.Ya. Baranov	15
Ch. II. Nature of Studies in the Geocryological Survey The distribution of permafrost rocks, the layer of seasonal freezing and thawing, and the temperature field of rocks are discussed.	3 7
Ch. III. Some Field Laboratory Studies The analysis of physical properties of frozen rocks, the application of the crystallooptic method, and the preservation of samples in the frozen state are discussed.	93
Ch. IV. Methods of Field Studies in Geocryological Surveying Geophysical investigations, the application of aerial methods, the geobotanical method, and the investigation of underground waters and surface waters are discussed.	136
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Geocryological [Permafrost] Field (Cont.)	sov/5885	
	.•	202
Ch. V. Geocryological Marmaking Principles and methods of geocryological symbols for such maps are given.	mapping and typical	
PART II. STUDIES OF GEOCRYOLO	OGICAL FORMATIONS	
		223
Ch. I. Cryogenic Formations		309
Ch. II. Postcryogenic Formations		-
Ch. III. Problems of the Dynamics of Froz	en Strata	352
PART III. STATICMARY GEOCRY	OLOGICAL STUDIES	:
		362
Tasks and Methods of Field Investigations	- Packs	383
Appendix I. Methods of Measuring the Temp	erature of nocas	
Card 4/5		

Geocryological [Permafrost] Field (Cont.)

sov/5885

Appendix II. Questionnaire Form for Field Records of Permafrost

420

soils

AVAILABLE: Library of Congress

SUBJECT : Geology and Geography

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YEFIMOV, Adrian Ivanovich, DEMENT'YEV, Anatoliy Ivanovich, PCHELINTSEV, Aleksandr Mikhaylovich, USHKALOV, V. P.,

"Engineering and geocryological research"

report to be submitted for the Intl. Conference on Permafrost, Purdue Univ., Layayette, Indiana, 11-15 Nov 63

YEFIMOV, Adrian Ivanovich, TOJSTIKHIN, N. J., VELMINA, N. A.,

"Hydrogeology in areas of permanently forzen rocks in the USSR"

report to be submitted for the Intl. Conference on Permafrost, Purdue Univ., Lafayette, Indiana, 11-15 Nov 63

YEFIMOV, A.I.; BELORUKOVA, L.P.; RYNDINA, A.M.

Complex compounds of the Me¹/₂ MoCl₆ type. Zhur.neorg.khim. 8

(MIRA 16:5)

no.5:1168-1171 My '63.

(Molybdenum chlorides) (Alkali metal chlorides) (Thermal analysis)

GRIDNEY, V.N.; YEFIMOV, A.I.; KUSHNAREVA, N.P.; KHAZANOV, M.S.

Investigating the behavior of nozzle blades in conditions of steady and unsteady heat flow. Sbor. nauch. rab. Inst. metallofiz. AN URSR no.18:47-53 *64 (MIRA 17:8)

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ACCESSION NR: AP4046671		
primary results with other Ameri about these conclusions: (1) The	possible attenuation is estimated as 4±2 db over planetary space. A comparison of these can, British, and Soviet published data brings meter-band radiowave attenuation over	
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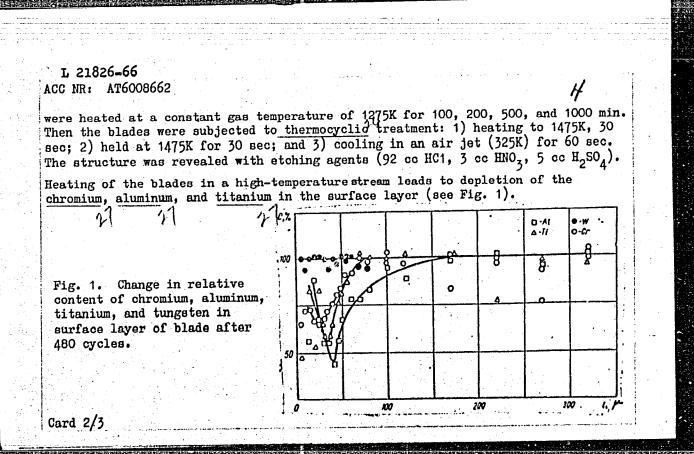
KOLOSOV, M.A.; YAKOVLEV, O.I.; YEFIMOV, A.I.; SHVACHKIN, K.M.; ROZGON, Yu.K.

Propagation of meter-long radio waves in the interplanetary space. Radiotekh. i elektron. 9 no.10:1735-1739 0 '64. (MIRA 17:11)

Į	2884-66 EWT(d)/FBD/FSS-2/EWT(1)/EEC(k)-2/EWA(d) TT/RB/GS/GH/WS-4 UR/0000/65/000/000/0227/0233
1	CCESSION AR: ALGOZGOO
1	AUTHOR: Kolosov, M. A.; Yakovlev, O. I.; Yefimov, A. I. CITLE: Propagation of radio waves in interplanetary and near solar space Cf
	· · · · · · · · · · · · · · · · · · ·
1.	SOURCE: 5 Vsesoyuznaya konferentsiya po fizike kosmicheskogo prostranstva. Moscow, 1965. Issledovaniya kosmicheskogo prostranstva (Space research); trudy konferentsii.
1	Moscow, Izd-vo Nauka, 1965, 227-233
	TOPIC TAGS: radio emission, radio wave propagation, radio wave absorption
	ABSTRACT: A study of radio wave propagation from Mars-1 at 183.6 Mc and reception
	at distances of up to 50 million km is the order of 300 million km on the basis of
١	radio emission data from Taurus A. In particular, an attenuation in inter-
	near solar region, 3) the effect of the interplanetary medic wave attenuation. Anal
	gation, and 4) the possible mechanism of monochromatic regular character ysis of signals from Mars-1 indicates signal fadings have an irregular character which cannot be entirely explained either by the effect of ionospheric inhomogeneities which cannot be entirely explained either by the effect of ionospheric inhomogeneities.
	which cannot be entirely explained either by the circumstance of t
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EM/JD/HW/JG/GS AUTHORS: Gridney, V. N. (Kiev); Yegorshina, T. V. (Kiev); Yefimov, A. I. (Kiev); Khazanov, M. S. (Kiev)	
ORG: none /03/	
TITLE: A study of the structure of the surface layers and of thermal stability of cast nozzle blades under conditions of stationary and nonstationary heating	
SOURCE: Vsesoyuznoye soveshchaniye po voprosam staticheskoy i dinamicheskoy prochnosti materialov i konstruktsionnykh elementov pri vysokikh i nizkikh tempera-	de serve ofer
turakh, 3d. Termoprochnost' materialov i konstruktsionnykh elementov (Thermal	
strength of materials and construction elements); materialy soveshchaniya. Kiev, Naukova dumka, 1965, 195-203	
TOPIC TAGS: turbine blade, gas turbine, thermal stability, nickel base alloy,	
chromium base alloy, metal surface, gas dynamics, high temperature instrument	1
ABSTRACT: The effect of the duration of heating at constant temperature on the structure and chemical composition of thin surface layers and on the thermal	
stability of cast nozzle blades with a nickel-chromium base is studied. The blades	
Card 1/3 (0)	2



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مسائح

The thermal stability of blades with depleted surface layers was found to be lower than in the original state. Mechanical repolishing of blades heated under steady conditions increases the thermal stability. Annealing in argon decreases considerably the depth of the depleted zone. Orig. art. has: 3 photographs and 3 graphs.

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SOURCE CODE: UR/0109/66/011/004/0617/0622 L 22608-66 FBD/FWT(1) GY/WS-ACC NR: AP6011441 Yakovlev, O. I.; Yefimov, A. I.; Shvachkin, K. M.

ORG: none

AUTHOR:

TITLE: Attenuation of radio waves in interplanetary space and in the vicinity of the Sun

SOURCE: Radiotekhnika i elektronika, v. 11, no. 4, 1966, 617-622

TOPIC TAGS: radio wave absorption, radio wave propagation, space communication

ABSTRACT: A study of attenuation of meter-band radio waves in interplanetary space and in the vicinity of the Sun is discussed. A method of precise measurements of radio emission from radio source Taurus-A was employed. The measurements were made from March through December 1964 at 184 Mc and various values of angle ψ . The bandwidth of the antenna radiation pattern permitted measurements at $\psi \geq 5^{\circ}$. On the basis of the measurements, the following conclusions were reached: 1) There is no attenuation (within limits of ±5%) in the propagation of radio waves with a continuous spectrum at the 1.6-m band for a distance of 3 x 10^8 km when the energy beam propagates at a distance of 2.5 x 10^7 km from the Sun. 2) Little attenuation was observed during the propagation of radio waves with a continuous spectrum at the 11-, 3.5-, and 1.6-m bands through all the interplanetary space within the Earth's orbit

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L_04181-67 EWT(m)/T/EWP(t)/ETI/EWP(k) IJP(c) JD/HV/GD SOURCE CODE: UR/0000/66/000/000/0025/0032

AUTHOR: Belous, O. A.; Gridney, V. N.; Yefimov, A. I.; Kushnareva, N. P.

ORG: none

TITLE: Effect of annealing temperature and <u>purity</u> on high temperature internal friction in <u>nickel</u>

SOURCE: AN SSSR. Institut metallurgii. Vnutrenneye treniye v metallakh i splavakh (Internal friction in metals and alloys). Moscow, Izd-vo Nauka, 1966, 25-32

TOPIC TAGS: internal friction, high temperature, temperature dependence, high purity metal, plastic deformation, impurity content, grain size, recrystallisation, annealing

ABSTRACT: Internal friction in the 200-900°C range on deformed and annealed nickel of 99.9%, 99.99% and higher purity was studied. The nickel was drawn about 95% and the wire samples were annealed at different temperatures. Internal friction was measured on a torsion pendulum operated at 1.7-2 cps. Changes in internal friction are given as functions of test temperature for samples previously annealed at 300 to 1200°C. At 200°C the background was greatest for samples annealed at the lower temperatures as a result of the increased amount of crystal lattice defects. For all annealing temperatures, a grain boundary relaxation peak occurred at 410-430°C, the height of which de-

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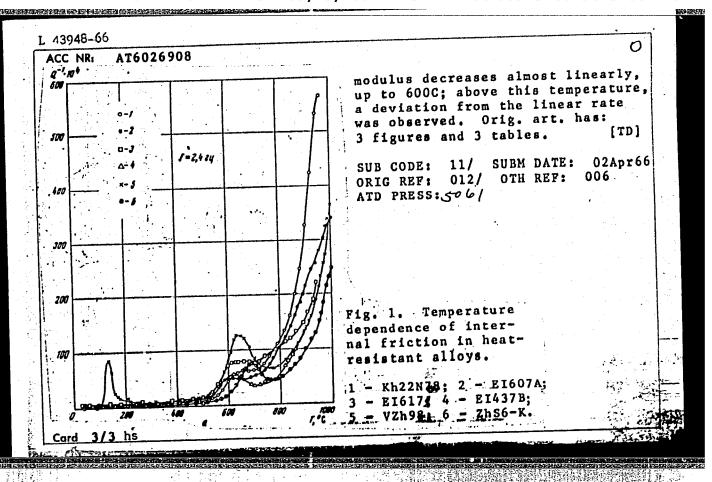
creased with rise in annealing temperature. In 99.9% nickel, the peak was unsymmetrical due to auxiliary relaxation processes occurring at 550-700°C. A metallographic examination showed that the recrystallization temperature of 99.9% nickel was 350°C. The grain size of 99.9%, 99.99% and electron beam remelted nickel are given as a function of annealing temperature. A heterogeneous grain structure was observed at 600-700°C. The largest grain growth occurred in the purest material: electron beam remelted nickel. In nickel of lower purity, the slow grain growth, even at an annealing temperature of 1200°C, was caused by the impedance of grain boun/ary migration due to impurities. The height of the grain boundary peak decreased with grain size and impurity content. For 99.99% nickel, two internal friction peaks occurred, one at 400-440°C and the other at 620-630°C. The heights of both peaks decreased with a rise in annealing temperature or grain size. In 99.99% nickel, a heterogeneous grain structure was recrystallized at 600°C, at which point the height of the peaks dropped sharply. The 625°C peak height increased with a rise in internal friction heating rate. It also decreased monotonically as a result of maintaining the sample at 625°C for periods up to l hr during internal friction testing. This peak was related to secondary recrystallization in the 99.99% nickel since the activation energy of recrystallization was higher than that of grain boundary relaxation. In electron beam melted nickel an extreme amount of background damping was observed in deformed samples. This damping became negligible after annealing at 300°C. Only one peak, corresponding to grain boundary relaxation, occurred in the 460-490°C range for the ultrapure nickel. However, anneal-

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<i>65</i>	
AUTHOR: Gridney, V. N.; Yefimov, A. I.	
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TITLE: Internal friction and shear modulus of nickel-chromium base	
heat-resistant alloys	
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source: AN SSSR. Institut metallurgit. Insti	'•
Izd-vo Nauka, 1966, 50-56	
shrowing containing alloy, titanium con-	
TOPIC TAGS: nickel alloy, chromitam containing alloy, niobium containing alloy, taining alloy, aluminum containing alloy, neat resistant	
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alloy, alloy internal friction, alloy shear modulus	
there modulus of heat-resistant	
ABSTRACT: The internal friction and shear modulus of heat-resistant nickel-chromium base alloys Kh22N78, VZh98, E1437B, E1607, E1617 and nickel-chromium base alloys Kh22N78, VZh98, E1437B, E1607, E1617 and nickel-chromium base alloys Kh22N78, VZh98, E1437B, E1607, E1617 and nickel-chromium base alloys Kh22N78, VZh98, E1437B, E1607, E1617 and nickel-chromium base alloys Kh22N78, VZh98, E1437B, E1607, E1617 and nickel-chromium base alloys Kh22N78, VZh98, E1437B, E1607, E1617 and nickel-chromium base alloys Kh22N78, VZh98, E1437B, E1607, E1617 and nickel-chromium base alloys Kh22N78, VZh98, VZh98, E1437B, E1607, E1617 and nickel-chromium base alloys Kh22N78, VZh98, E1437B, E1607, E1617 and nickel-chromium base alloys Kh22N78, VZh98, E1607, E1617 and nickel-chromium base alloys Kh22N78, VZh98, E1607, E1617 and nickel-chromium base alloys Kh22N78, VZh98, E1607, VZh98, E1607, VZh98, E1607, VZh98, E1607, VZh98, E1607, VZh98, V	
nickel-chromium base alloys kn22k70, vanse, at temperatures ranging ZhS6-K (see Table 1) have been investigated at temperatures ranging	
zhS6-K (see Table 1) have been investigated at temperature x 150 mm long, from 20C-1000C. Alloy specimens, 0.8 mm in diameter x 150 mm long,	
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were prepared by cold drawing; accept to the changes in internal which were prepared by grinding. No significant changes in internal	
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L 04183-67 EWT(m)/T/EWP(t)/ETI IJP(c) JD/JG/GD SOURCE CODE: UR/0000/66/000/000/0056/0062
AUTHOR: Belous, O. A.; Gridney, V. N.; Yefimov, A. I.; Mil'man, Yu. V.; Trefilov, V. I.
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ρ_{-1}
TITLE: The effect of annealing temperature on Q and G-purity chromium and alloys of
chromium with vttrium and gadolinium
SOURCE: AN SSSR. Institut metallurgii. Vnutrenneye treniye v metallakh i splavakh
(Internal friction in metals and alloys). Moscow, Izd-vo Nauka, 1966, 56-62
TOPIC TAGS: internal friction, annealing, temperature dependence, chromium, high purity metal, yttrium, gadolinium, metallographic examination, grain structure, dislocation effect
ABSTRACT: The effect of annealing temperature on temperature dependent internal friction was studied in zone melted chromium, Cr + 1% Y, and Cr + 1% Gd. Wire samples of 0.8 mm diameter were drawn at 300°C to about 95%. These wires were annealed before testing for 1 hr at temperatures ranging from 100 to 1100°C. At low testing temperatures the internal friction in the pure chromium was twice as low as that in the alloys. In all cases, the internal friction decreased as a function of annealing temperature; in zone refined chromium, the internal friction dropped from 15·10 ⁻¹⁶ to 5·10 ⁻¹⁶ after annealing to 300°C; in Cr + 1% Y, the internal friction decreased at 50°C after
Card 1/3

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annealing up to 600°C. These changes were partially caused by the redistribution of interstitial impurities during annealing. Transmission electron microscopy showed that the density and distribution of dislocations did not change after annealing up to 400°C. Thus in the alloys the internal friction decrease was caused by polygonization. Microstructures did not show any differences between pure chromium and the alloys that would account for the internal friction recovery. At high testing temperatures, the internal friction increased sharply due to grain boundary relaxation. The rise in internal friction at high temperatures was the same for all of the metals. The shift in initial rise of internal friction with annealing was caused by a decrease in both dislocation density and grain boundary area. After annealing at similar temperatures, the value of internal friction was highest in the alloys, due to the retardation of recrystallization by alloying. In the 300-600°C temperature range, the change in Q-1 was caused by polygonization in Cr + 1% Y (the recrystallization temperature of Cr-Y is above 800°C), while in pure chromium above 600°C it was due to recrystallization. Internal friction peaks occurred at 900°C in pure chromium at an oscillation frequency of 2.8 cps. In Cr + 1% Gd a similar grain boundary peak occurred at 960-970°C at a frequency of 2.1 cps. In Cr + 1% Y the peak was not observed because alloying with yttrium raised the peak into a higher temperature range. The temperature dependence of the square of the frequency is proportional to the shear modulus. Deviations from linearity were observed in the same temperature range where the sharp rise in Q 1 was observed. This change in shear modulus was caused by grain boundary relaxation and lat-

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001962320017-0"

UR/0126/66/022/002/0227/0233 SOURCE CODE: ACC NR: AP6033049 AUTHOR: Yefimov, A. I.; Kushnareva, N. P.; Statkevich, V. N.; Trefilov, V. I. Institute of Physics of Metals, AN UkrSSR (Institut metallofiziki AN UkrSSR); Electric Welding Institute im. Ye. O. Paton, AN UkrSSR (Institut elektrosvarki AN UkrSSR) Structure sensitivity of plastic properties of electron beam TITLE: melted molybdenum alloys Fizika i metallov i metallovedeniye, v. 22, no. 2, 1966, SOURCE: 227-233 TOPIC TAGS: molybdenum, molybdenum alloy, molybdenum alloy structure, 27 molybdenum alloy, plasticity, metal ceystal 2) Specimens of electron-beam melted molybdenum and Mo-C-Ti and Mo-B-Ti alloys have been subjected to bending tests in the as-cast and annealed (in vacuum at 2000C for 1 hr) conditions. It was found that the plasticity of molybdenum alloys depends, to a great degree, on their structure. Specimens of pure molybdenum and Ho-C-Ti alloy cut from the ingots along their longitudinal axes had crystals positioned in the lengthwise direction and they were plastic. As-cast pura UDC: 548.4 Card 1/2

ACC NR AP6033049

molybdenum longitudinal specimens withstood bending to 180°, without failure, while annealed specimens failed at 150° in a transcrystalline manner. Specimens of Mo-C-Ti alloy broke at a 150-160° bending angle with a fracture along the grain. Specimens of pure molybdenum and Mo-C-Ti alloy cut across the ingot axis were predominantly brittle and broke at 0°, with the exception of annealed specimens which broke at All longitudinal and crossectional specimens of Mo-BLTi alloy were brittle, showing predominantly transcrystalline fracture. It was established that alloys with high plasticity have clearly developed fragmentation and a disorientation of substructure fragments Orig. art. has: 4 figures and 1 table. of 2-4°.

ORIG REF: 010/ OTH REF : SUB CODE: 11/ SUBM DATE: 22Dec65/

Card 2/2

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APPROVED FOR RELEASE: 09/19/2001

UR/0109/66/011/011/2064/2066 SOURCE CODE: ACC NR: AP6036377 (N)

AUTHOR: Yakovlev, O. I.; Yesimov, A. I.

ORG: none

TITLE: Fluctuation characteristics and spectrum of radio waves propagating in

the interplanetary space

SOURCE: Radiotekhnika i elektronika, v. 11, no. 11, 1966, 2064-2066

TOPIC TAGS: radio wave propagation, interplanetary space, interplanetary communication

ABSTRACT: Rapid fluctuation of energy stream propagating in the interplanetary space has been observed (A. Hewish et al., Nature, 1964, 203, 4951, 1214) when the radiowave sources have small (I angle minute or less) size. This fluctuation is due to the rapidly-moving statistically-inhomogeneous plasma that fills the

ACC NR: AP6036377

space between the planets (A. Hewish et al., Monthly Notices, Royal Astr. Soc., 1963, 126, 5, 467). Formulas are derived which describe the mean square amplitude fluctuation, the mean square phase fluctuation, and the energy-spectrum width in terms of L and ψ ; the radiowave path is described by its length L and the angle ψ between the direction to the Sun and the direction to the radio source, the receiver being located on the Earth. Orig. art. has: 1 figure and 13 formulas.

SUB CODE: 03, 09 / SUBM DATE: 01Mar66 / ORIG REF: 007 / OTH REF: 002

Card 2/2

ACC NR: AP6036386

SOURCE CODE: UR/0210/66/000/007/0092/0097

AUTHOR: Yefimov, A. I.; Dukhin, I. Ye.

ORG: none

TITLE: Maximum depth of occurrence of perennially frozen rock

SOURCE: Geologiya i geofizika, no. 7, 1966, 92-97

TOPIC TAGS: geology, physical geology, geocryology, frozen rock, perennially frozen rock depth, permafrost, depression/Tunkin

ABSTRACT: The authors discuss the possibility of the occurrence of perennially frozen rock to depths of 1200—1300 m in the Tunkin depression and elsewhere in the vicinity of Lake Baykal. Data obtained by other authors, principally A. P. Butmasov, and the arguments presented by them for and against the occurrence of perennially frozen rock at such great depths are analyzed, as is the reliability of the gravimetric methods used in obtaining the data. A table is included which presents information on instances of perennially frozen rock at maximum depths (isothermal lower surface temperature 0°C) in Europe, Asia, and North America.

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predominating rocks, average annual air temperature, rock temperature at specific depths, maximum depth of occurrence, and source of data. [W-79-67-4]

SUB CODE: 08/SUBM DATE: none/ORIG REF: 024/OTH REF: 004/

Card 2/2

YEFIMOV, A. K.

Reinforced Concrete Construction

Effect of cracks in lightly reinforced constructions on the lay out of reinforcement. Gidr. stroi. 21 no. 2, 1952

MONTHLY LIST OF RUSSIAN ACCESSIONS, LIBRARY OF CONGRESS, JULY, 1952. UNCLASSIFIED.

Ye finov A.K., insh., red.; KHAVIN, B.N., red.izd-ve; BL'KINA, E.M., tekhn.red.

[Norms and technical specifications for calculating maximum water consumption in designing hydraulic installations on rivers]
Normy i tekhnicheskie usloviia dlia rascheta maksimal'nykh raskhodov vody pri proektirovanii gidrotekhnicheskikh sooruzhenii na rekakh. (SN a-57). Moskva, Gos.izd-vo lit-ry po stroit.i arkhit., 1957. 31 p. (MIRA 11:1)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. (Hydraulic engineering)

YEFINOV, A.K., inzhener.

Increasing economy in constructing lightly reinforced hydraulic structures. Gidr. stroi. 26 no.5:31-33 My '57. (MIRA 10:6) (Hydraulic engineering) (Reinforced concrete construction)

AUTHOR:

Yefimov, A.K., Engineer

SOV-98-58-10-13/16

TITLE:

Reinforcement of Hydrotechnical Reinforced Concrete Structures (Armirovaniye zhelezobetonnykh gidrotekhnicheskikh so-

oruzheniy)

PERIODICAL:

Gidrotekhnicheskoye stroitel'stvo, 1958, Nr 10, pp 47-48

(USSR)

ABSTRACT:

Point 53a of GOST is criticized by the author. He agrees with V.I. Vutsel's article entitled "Reinforcements of Hydrotechnical Reinforced Concrete Structures", that reinforced concrete structures, designed according to the above GOST are uneconomical. Working formulae for designing the reinforced concrete structures are given. There are 3 Soviet

references.

1. Structures-Design 2. Reinforced concrete--Economic aspects

Card 1/1

"Collection of problems in analytical geometry." D.V. Kletenik. Reviewed by L.E. Sadovskii. Usp.mat.nauk. 8 no.4:208-210 J1-Ag '53. (MLRA 6:8) (Geometry, Analytic) (Kletenik, D.V.)

POGORELOV, A.V. [author]; YEFIMOV, N.V. [reviewer].

"Unique determinability of general convex surfaces." A.V.Pogorelov. Reviewed by N.V. Efinov. Sov.kniga no.8:6-8 ag '53. (HIRA 6:8) (Surfaces of constant curvature) (Pogorelov, A.V.)

POGORELOV, A.V. [author]; YEFIMOV, N.V. [reviewer].

"Flexure of convex surfaces." A.V.Pogorelov. Reviewed by H.V.Efimov. Usp.
mat.nauk 8 no.5:213-214 S-0 '53. (MLRA 6:10)

(Pogorelov, A.V.) (Surfaces, Deformation of)

POGORELOV, A.V. [author]; YEFIMOV, N.V. [reviewer].

"Unique determinability of general convex surfaces." A.V.Pogorelov. Reviewed by N.V.Efimov. Usp.mat.nauk 8 no.5:214 S-0 '53. (MLRA 6:10)

(Surfaces of constant curvature)

YEFIMCV, A. I., Ed.

Collection of Instructions for Quarantine Inspection of Agricultural and Forest Crops, State Office of External and Internal Quarantine of Plants, Moscow, 1935, 104 pg. 164.47 Bf6

So: SIRA- S1-90-53, 15 Dec 1953

YEFTPOV, A. I..

Report of a Study of Plent Quarantine in the Cotton Belt of the U.S.A., State Office of External and Internal Quarentine of Plants, Moscow, 1936, 64 pp. 464.4 Ef6P

So: SIRA -S1-90-53, 15,Dec 1953

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YEFINOV, A. I. (Editor)

Powdery Scab of Potato, a Collection of Articles, Publishing House of the Belorusaian Academy of Science, Minsk, 1936, 131 po. 464.1 M66

So: SIRA* S1-90-53, 15 Dec. 1953

